I Claim:

1. A transmission and reception method in a digital telecommunications system, which comprises:

at a transmitter end, rotating each data symbol in a predetermined initial sequence known to a receiver through a phase rotation factor specific for a type of modulation being used;

at a receiver end, derotating the data symbols through different phase rotation factors to generate a derotated sequence; and

forming a single correlation function between the derotated sequence and the initial sequence based on an assumed temporal position of the initial sequence contained in the received signal for each phase rotation factor;

forming a summation of products between the derotated sequence and the initial sequence for individual moments in time from the correlation function, and squaring a magnitude of the summation to form squares; and

comparing the squares of the magnitudes and determining therefrom a modulation type used at the transmitter end.

- The transmission and reception method according to claim
 wherein the initial sequence is a training sequence of a data burst.
- 3. The transmission and reception method according to claim
 1, which comprises forming the correlation function between
 the received sequences and the initial sequence in an
 original, unfiltered state.
- 4. A receiver for a digital telecommunications system, comprising:

means for receiving a data signal from a transmitter and containing an initial sequence known to said receiver and having each data symbol rotated through a phase rotation factor;

means connected to said receiving means for derotating the data symbols in the received initial sequence through different phase rotation factors;

means for forming a single correlation function between the sequence obtained by said derotating means and the initial sequence on the basis of an assumed temporal position of the initial sequence contained in the received signal for each phase rotation factor;

means for forming a summation of products between the sequence obtained by said derotating means and the initial sequence for individual moments in time;

means for squaring a magnitude of a summation for forming squares; and

means for determining a maximum of the squares formed in said squaring means and determining therefrom a modulation type used at the transmitter.